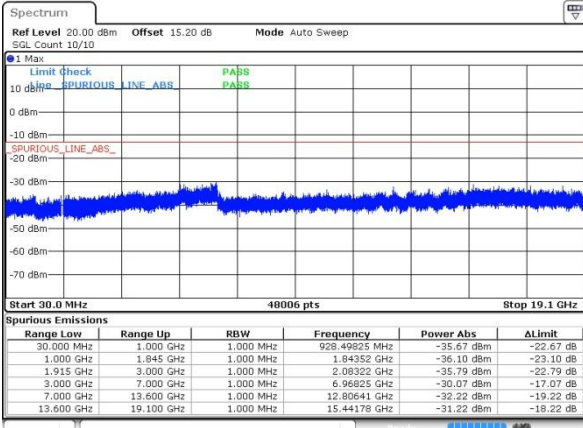




GSM1900 (GSM)

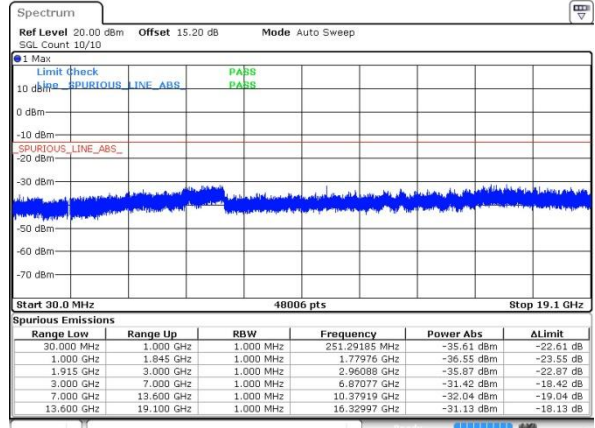
Lowest Channel



Date: 26 JUN 2021 12:17:24

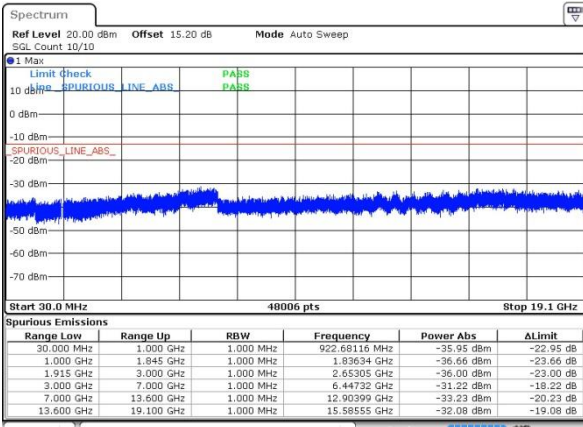
GSM1900 (EDGE class 8)

Lowest Channel



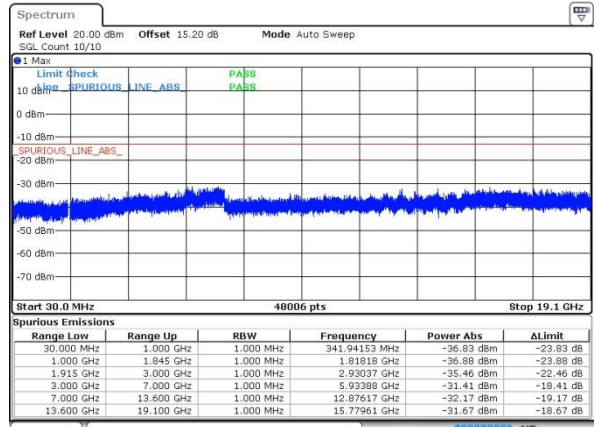
Date: 26 JUN 2021 13:02:33

Middle Channel



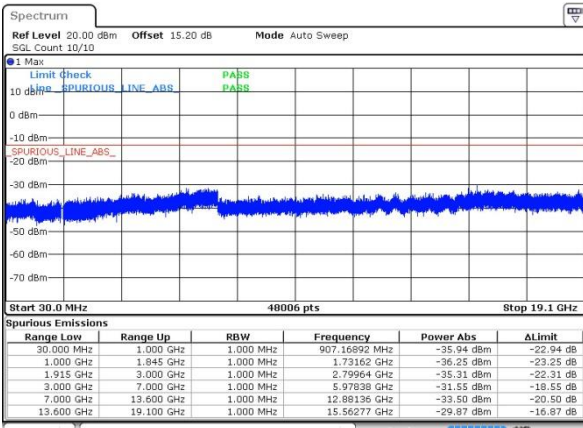
Date: 26 JUN 2021 12:17:45

Middle Channel



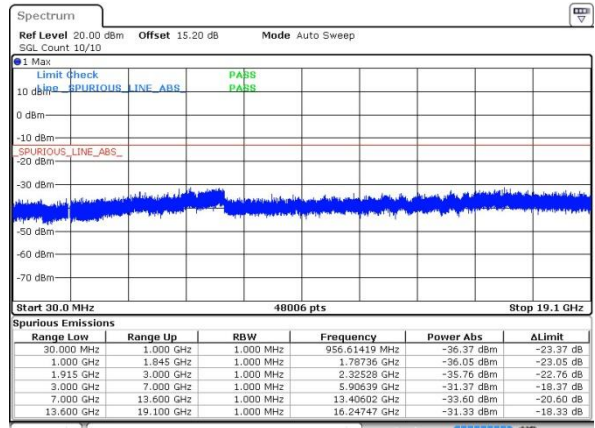
Date: 26 JUN 2021 13:02:53

Highest Channel



Date: 26 JUN 2021 12:18:04

Highest Channel



Date: 26 JUN 2021 13:03:11



Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0042	0.0058	PASS
40	Normal Voltage	0.0517	0.0147	
30	Normal Voltage	0.0099	0.0562	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0563	0.0428	
0	Normal Voltage	0.0182	0.0536	
-10	Normal Voltage	0.0059	0.0447	
-20	Normal Voltage	0.0139	0.0144	
-30	Normal Voltage	0.0174	0.0458	
20	Maximum Voltage	0.0455	0.0556	
20	Normal Voltage	0.0169	0.0139	
20	Battery End Point	0.0328	0.0238	

Note:

1. Normal Voltage = 3.8V : Battery End Point (BEP) =3.6V. : Maximum Voltage =4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0044	0.0002	PASS
40	Normal Voltage	0.0058	0.0044	
30	Normal Voltage	0.0069	0.0076	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0164	0.0269	
0	Normal Voltage	0.0047	0.0162	
-10	Normal Voltage	0.0128	0.0033	
-20	Normal Voltage	0.0218	0.0039	
-30	Normal Voltage	0.0003	0.0274	
20	Maximum Voltage	0.0047	0.0182	
20	Normal Voltage	0.0044	0.0091	
20	Battery End Point	0.0169	0.0014	

Note:

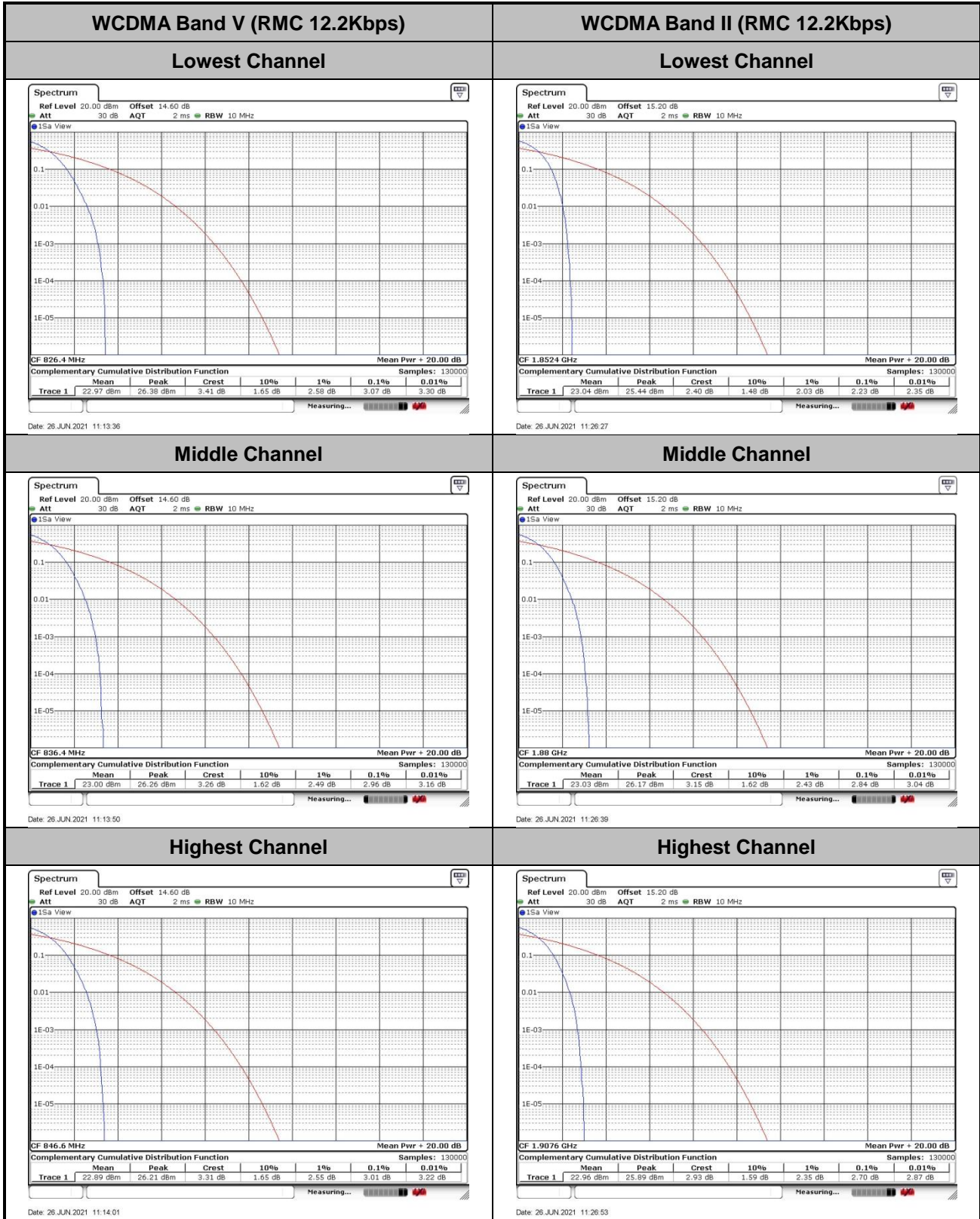
1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



A2. WCDMA

Peak-to-Average Ratio

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	3.07	2.23	3.01	PASS
Middle CH	2.96	2.84	3.07	
Highest CH	3.01	2.70	3.07	





WCDMA Band IV (RMC 12.2Kbps)

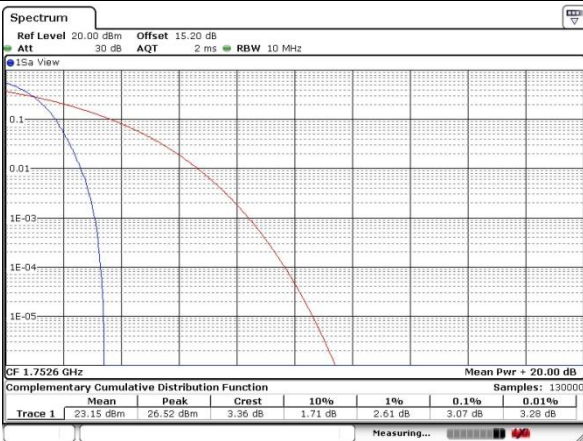
Lowest Channel



Middle Channel



Highest Channel





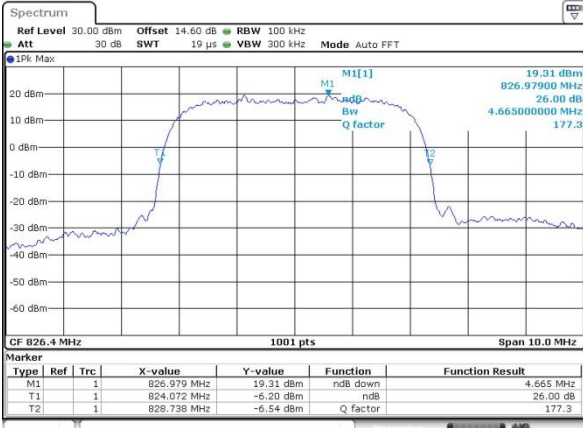
26dB Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.67	4.71	4.68
Middle CH	4.68	4.68	4.68
Highest CH	4.67	4.68	4.67



WCDMA Band V (RMC 12.2Kbps)

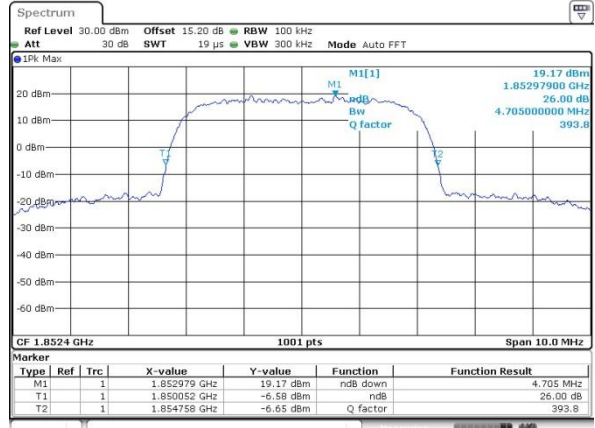
Lowest Channel



Date: 26 JUN 2021 11:03:44

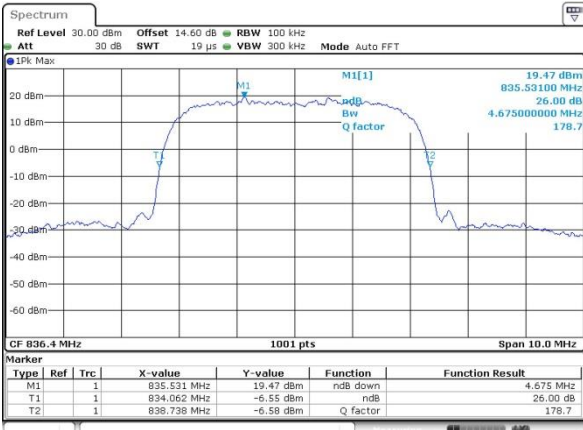
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



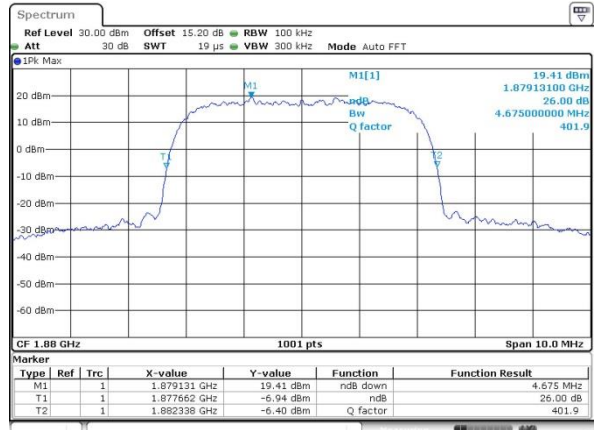
Date: 26 JUN 2021 11:19:02

Middle Channel



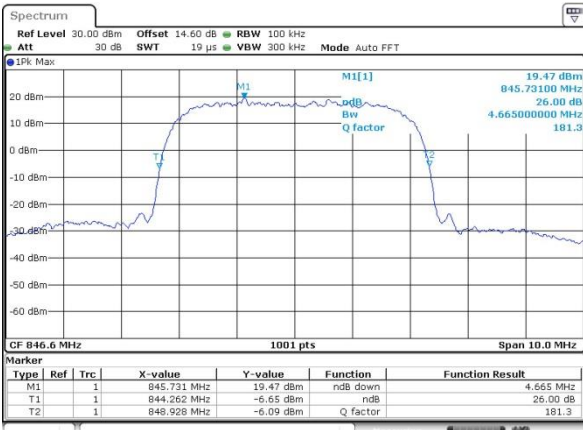
Date: 26 JUN 2021 11:04:10

Middle Channel



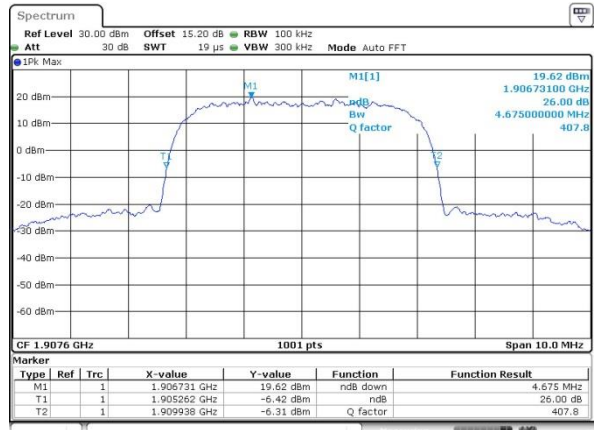
Date: 26 JUN 2021 11:19:24

Highest Channel



Date: 26 JUN 2021 11:04:37

Highest Channel

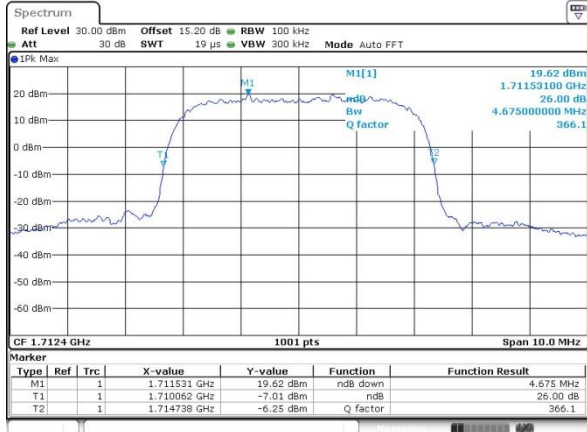


Date: 26 JUN 2021 11:19:49



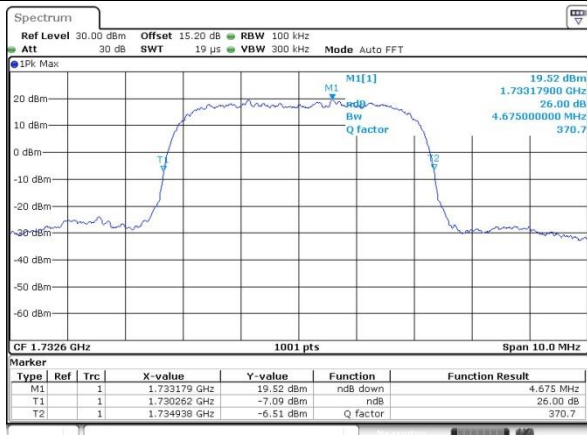
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



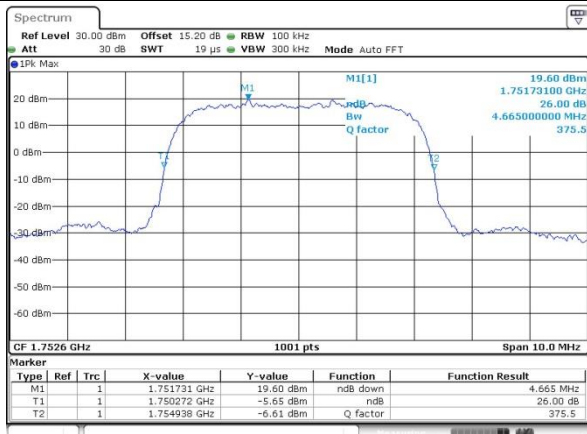
Date: 26 JUN 2021 11:30:20

Middle Channel



Date: 26 JUN 2021 11:30:44

Highest Channel

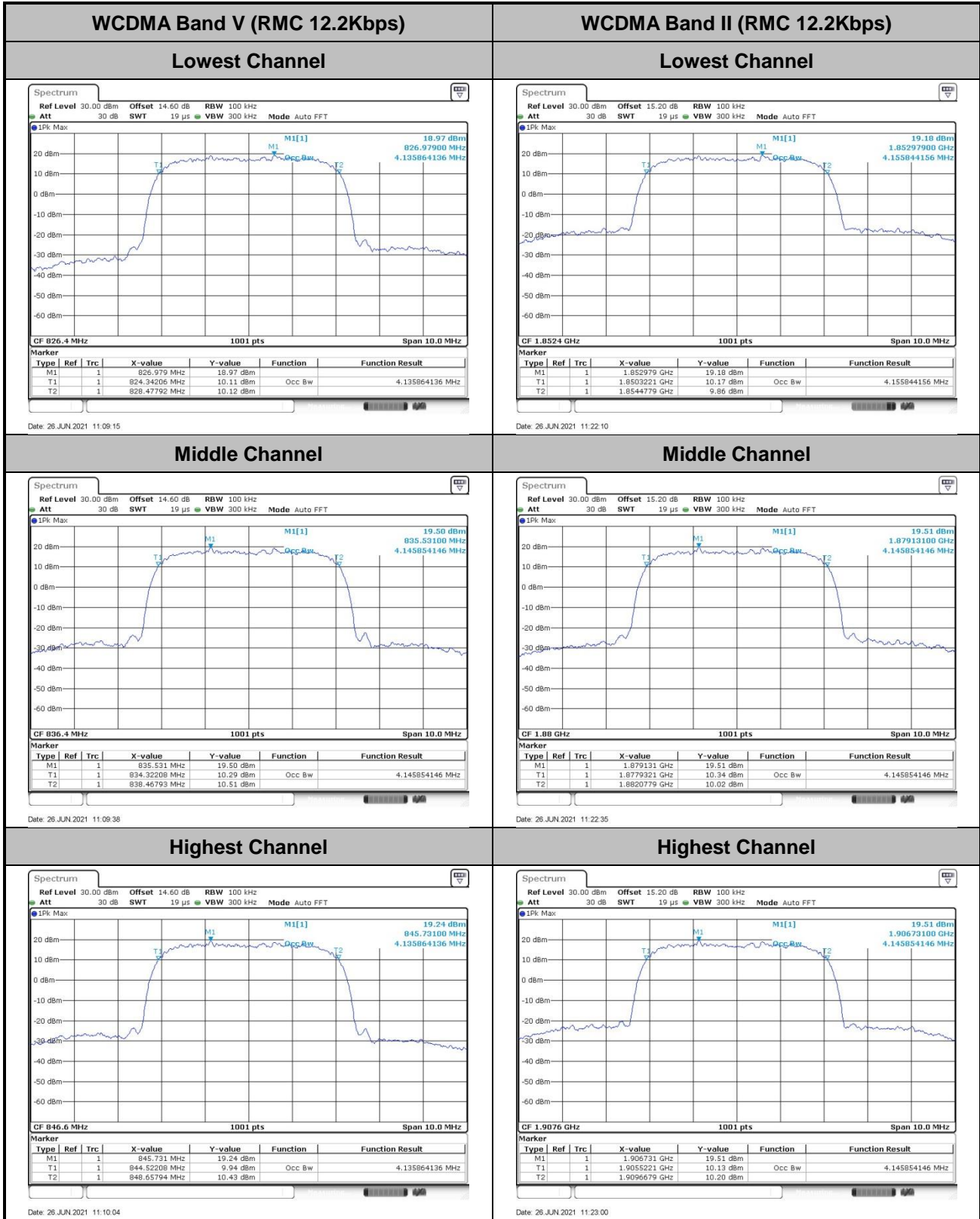


Date: 26 JUN 2021 11:31:09



Occupied Bandwidth

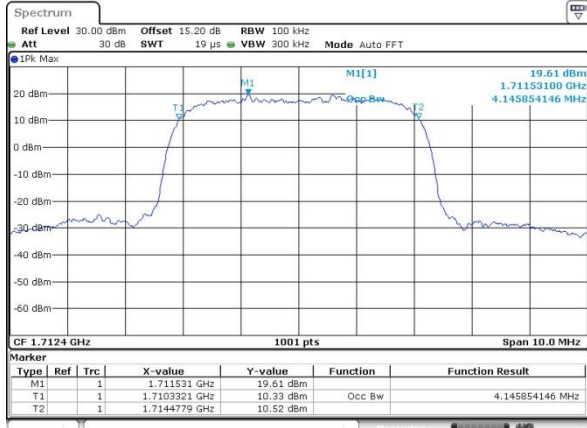
Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.14	4.16	4.15
Middle CH	4.15	4.15	4.15
Highest CH	4.14	4.15	4.15





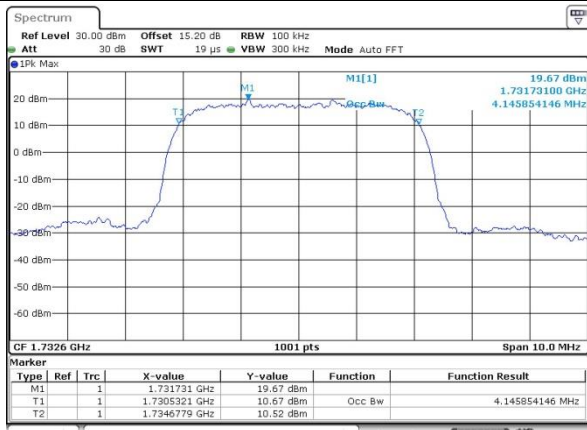
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



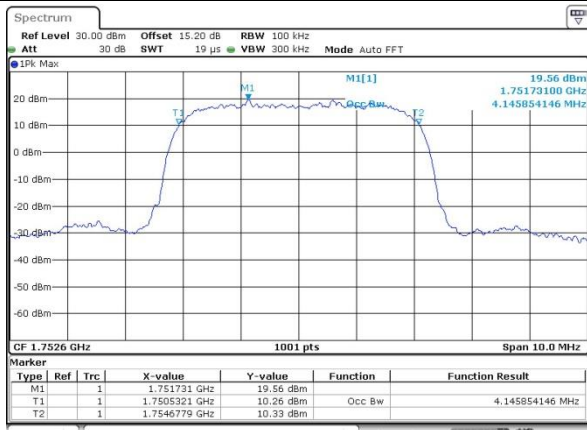
Date: 26 JUN 2021 11:33:03

Middle Channel



Date: 26 JUN 2021 11:33:31

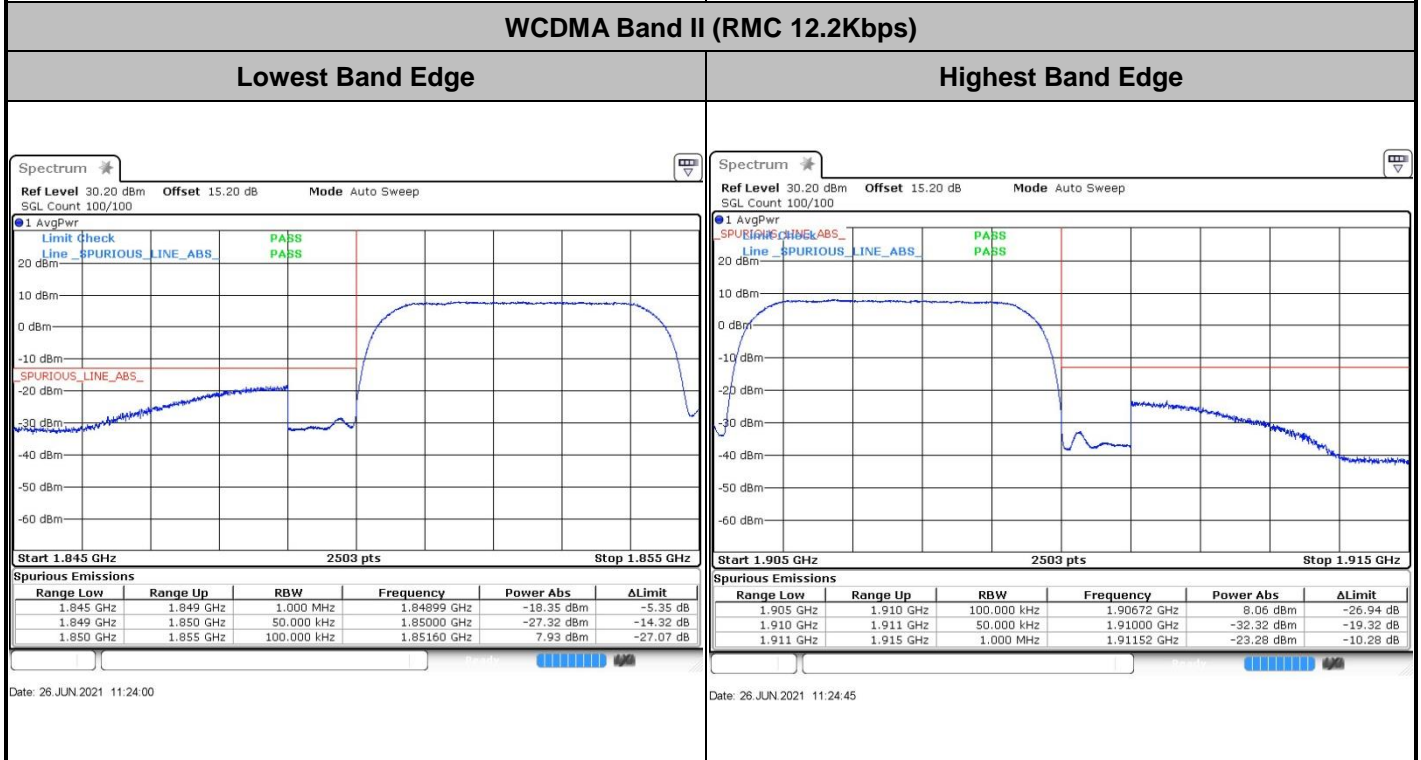
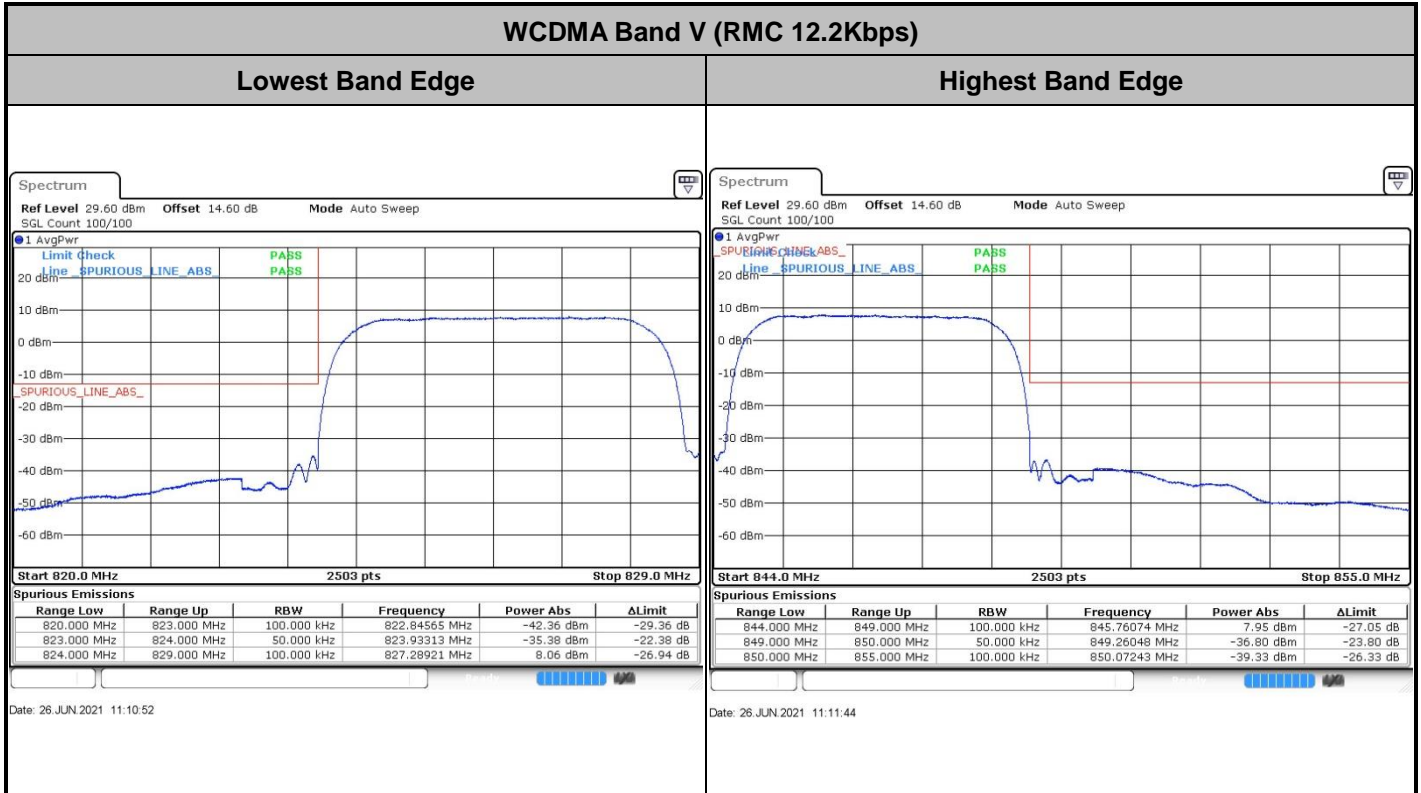
Highest Channel

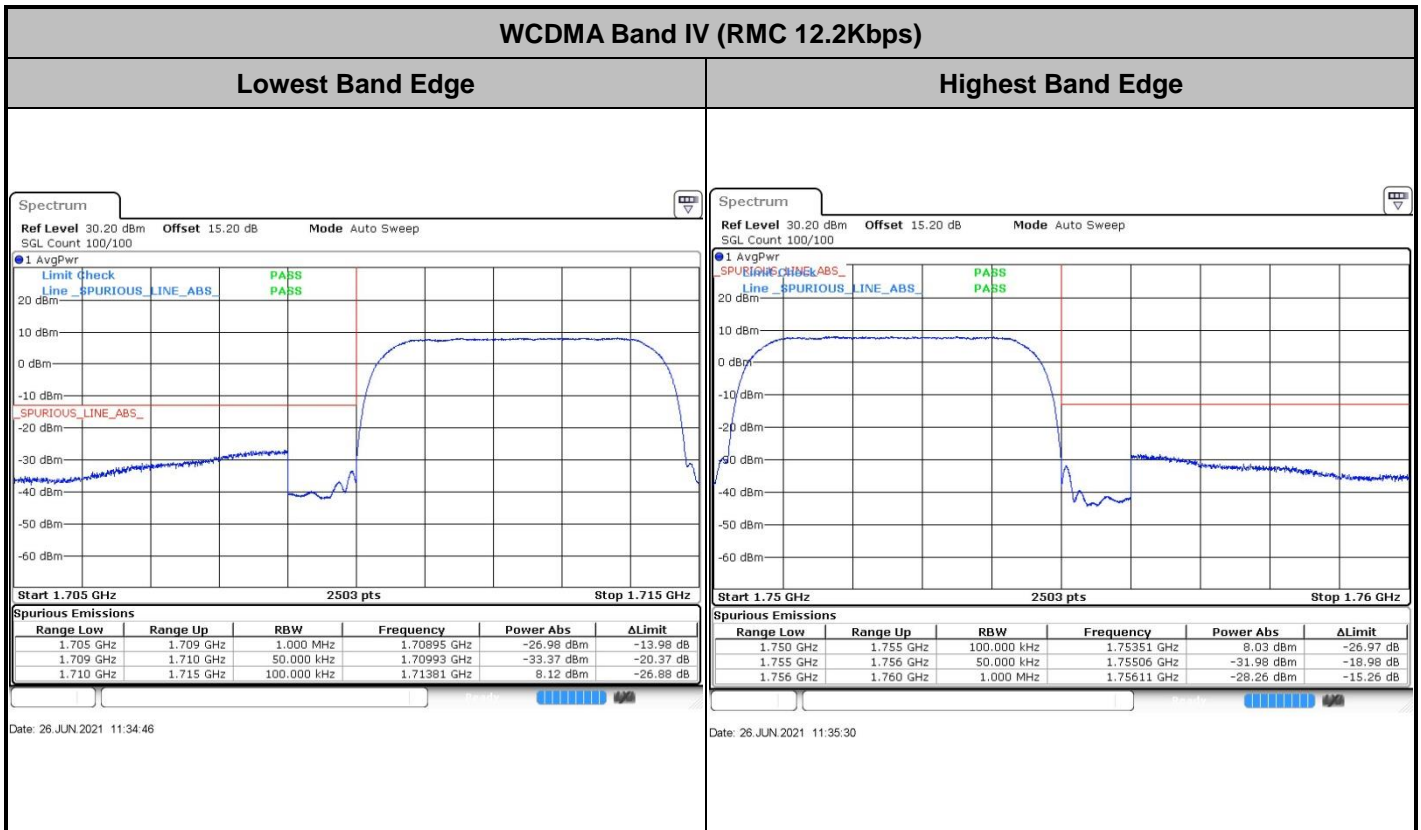


Date: 26 JUN 2021 11:33:56



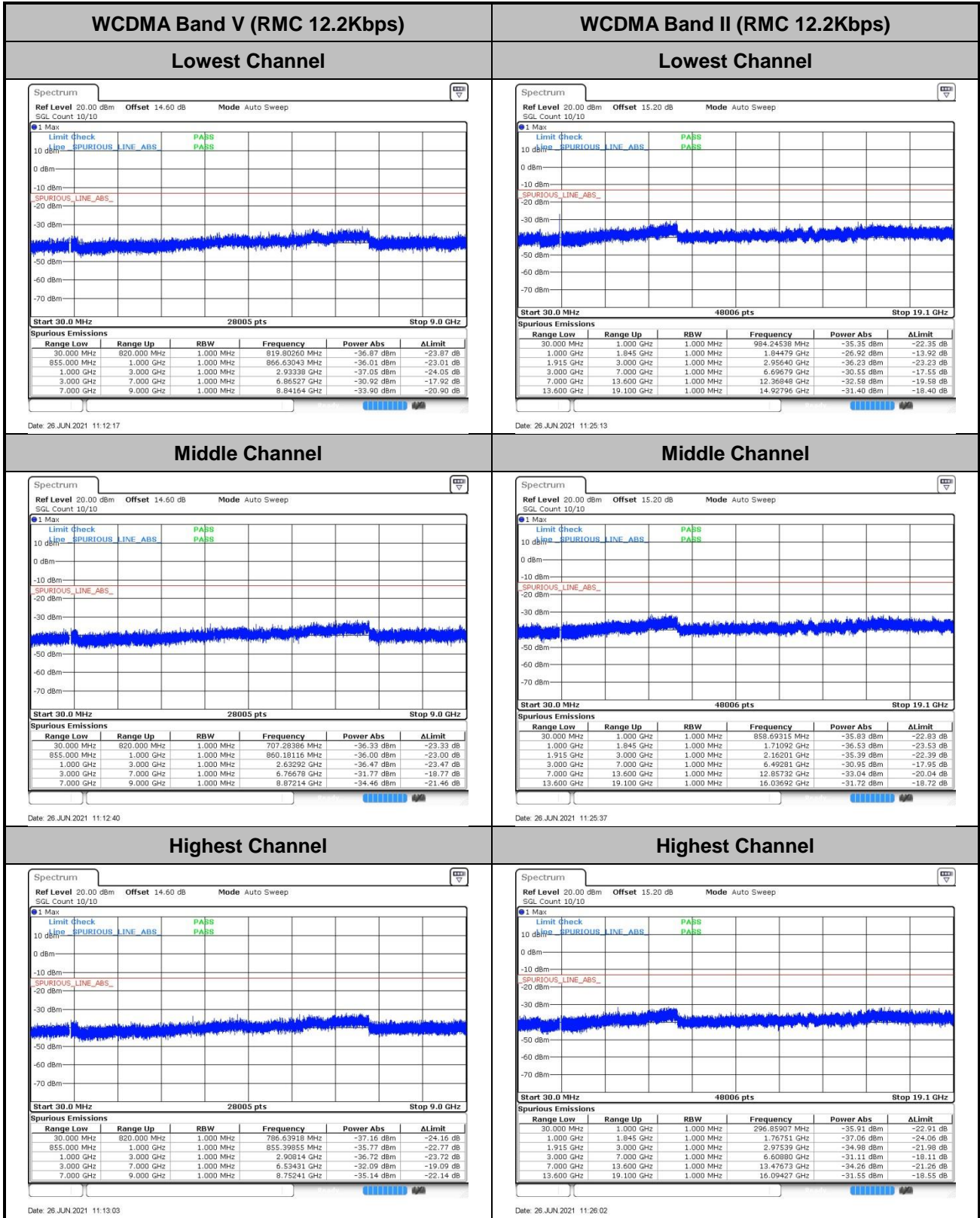
Conducted Band Edge







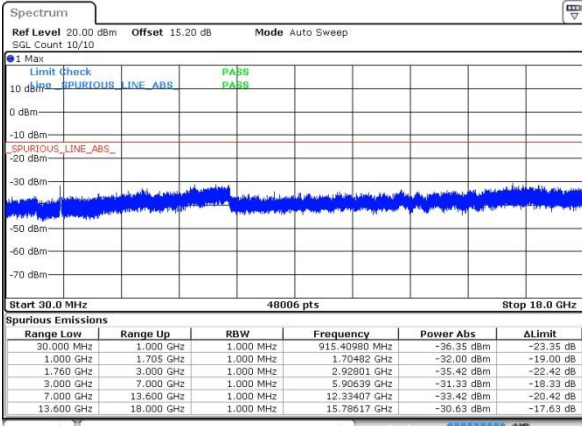
Conducted Spurious Emission





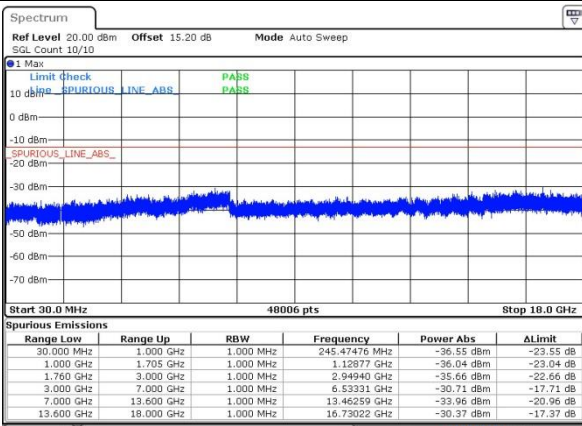
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



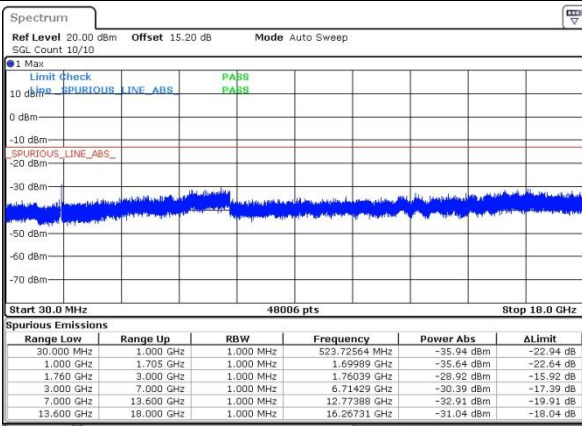
Date: 26 JUN 2021 11:35:58

Middle Channel



Date: 26 JUN 2021 11:36:23

Highest Channel



Date: 26 JUN 2021 11:36:50



Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0058	PASS
40	Normal Voltage	0.0377	
30	Normal Voltage	0.0485	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0069	
0	Normal Voltage	0.0344	
-10	Normal Voltage	0.0063	
-20	Normal Voltage	0.0141	
-30	Normal Voltage	0.0325	
20	Maximum Voltage	0.0418	
20	Normal Voltage	0.0176	
20	Battery End Point	0.0063	

Note:

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V.; Maximum Voltage =4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0169	PASS
40	Normal Voltage	0.0136	
30	Normal Voltage	0.0144	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0155	
0	Normal Voltage	0.0136	
-10	Normal Voltage	0.0247	
-20	Normal Voltage	0.0072	
-30	Normal Voltage	0.0169	
20	Maximum Voltage	0.0162	
20	Normal Voltage	0.0128	
20	Battery End Point	0.0019	

Note:

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V.; Maximum Voltage =4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0146	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0044	
-10	Normal Voltage	0.0172	
-20	Normal Voltage	0.0163	
-30	Normal Voltage	0.0061	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0029	
20	Battery End Point	0.0118	

Note:

1. Normal Voltage = 3.8V ; Battery End Point (BEP) =3.6V.; Maximum Voltage =4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

GSM850 (GSM)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-52.33	-13	-39.33	-59.30	1.58	10.70	H
	2510	-53.60	-13	-40.60	-61.85	2.10	12.50	H
	3348	-55.65	-13	-42.65	-64.54	2.86	13.90	H
	1672	-58.13	-13	-45.13	-65.10	1.58	10.70	V
	2510	-46.27	-13	-33.27	-54.52	2.10	12.50	V
	3348	-58.62	-13	-45.62	-67.51	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM850 (GSM)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-58.10	-13	-45.10	-65.07	1.58	10.70	H
	2510	-49.04	-13	-36.04	-57.29	2.10	12.50	H
	3348	-56.95	-13	-43.95	-65.84	2.86	13.90	H
	1672	-60.09	-13	-47.09	-67.06	1.58	10.70	V
	2510	-46.43	-13	-33.43	-54.68	2.10	12.50	V
	3348	-57.75	-13	-44.75	-66.64	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



GSM1900 (GSM)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-56.69	-13	-43.69	-68.95	2.64	14.90	H
	5640	-55.28	-13	-42.28	-67.14	2.94	14.80	H
	7524	-53.24	-13	-40.24	-63.01	3.39	13.16	H
	9396	-46.24	-13	-33.24	-56.72	4.00	14.48	H
	3759	-56.54	-13	-43.54	-68.80	2.64	14.90	V
	5640	-56.00	-13	-43.00	-67.86	2.94	14.80	V
	7524	-53.15	-13	-40.15	-62.92	3.39	13.16	V
	9396	-47.29	-13	-34.29	-57.77	4.00	14.48	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM1900 (EDGE 1 Tx slots)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-55.37	-13	-42.37	-67.63	2.64	14.90	H
	5640	-54.39	-13	-41.39	-66.25	2.94	14.80	H
	7524	-52.22	-13	-39.22	-61.99	3.39	13.16	H
	9396	-45.95	-13	-32.95	-56.43	4.00	14.48	H
	3759	-55.43	-13	-42.43	-67.69	2.64	14.90	V
	5640	-54.88	-13	-41.88	-66.74	2.94	14.80	V
	7524	-52.06	-13	-39.06	-61.83	3.39	13.16	V
	9396	-46.27	-13	-33.27	-56.75	4.00	14.48	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



WCDMA Band V(RMC 12.2Kbps)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-62.43	-13	-49.43	-69.40	1.58	10.70	H
	2510	-59.95	-13	-46.95	-68.20	2.102	12.50	H
	3348	-58.98	-13	-45.98	-67.87	2.856	13.90	H
	1672	-63.12	-13	-50.12	-70.09	1.58	10.70	V
	2510	-59.17	-13	-46.17	-67.42	2.10	12.50	V
	3348	-59.84	-13	-46.84	-68.73	2.86	13.90	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band II(RMC 12.2Kbps)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-56.69	-13	-43.69	-68.95	2.64	14.90	H
	5640	-55.28	-13	-42.28	-67.14	2.94	14.80	H
	7524	-53.24	-13	-40.24	-63.01	3.39	13.16	H
	9396	-46.24	-13	-33.24	-56.72	4.00	14.48	H
	3759	-56.54	-13	-43.54	-68.80	2.64	14.90	V
	5640	-56.00	-13	-43.00	-67.86	2.94	14.80	V
	7524	-53.15	-13	-40.15	-62.92	3.39	13.16	V
	9396	-47.29	-13	-34.29	-57.77	4.00	14.48	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

WCDMA Band IV(RMC 12.2Kbps)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465	-57.81	-13	-44.81	-68.55	2.604	13.34	H
	5199	-54.85	-13	-41.85	-65.36	3.011	13.52	H
	6936	-54.58	-13	-41.58	-64.78	3.271	13.47	H
	3465	-57.96	-13	-44.96	-68.70	2.604	13.34	V
	5199	-54.73	-13	-41.73	-65.24	3.011	13.52	V
	6936	-54.54	-13	-41.54	-64.74	3.271	13.47	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.